

WEST Search History

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DATE: Tuesday, March 20, 2007

Hide? Set Name Query

Hit Count

DB=PGPB,USPT; PLUR=YES; OP=ADJ

<input type="checkbox"/> L12	L11 and l6	1
<input type="checkbox"/> L11	L10 and @ad<20020123	2
<input type="checkbox"/> L10	L9 and (DNA or nucleic acid or nucleotide or polynucleotide or vector or host)	4
<input type="checkbox"/> L9	L7 and Piromyces	5
<input type="checkbox"/> L7	Xylose isomerase or Xylose ketoisomerase	512
<input type="checkbox"/> L6	L5 or l4 or l3 or l2 or l1	41236
<input type="checkbox"/> L5	(536/23.2)!.ccls.	15554
<input type="checkbox"/> L4	(435/320.1)!.ccls.	33531
<input type="checkbox"/> L3	(435/252.3)!.ccls.	11355
<input type="checkbox"/> L2	(435/233)!.ccls.	295
<input type="checkbox"/> L1	(435/183)!.ccls.	5496

END OF SEARCH HISTORY

=> d full his

(FILE 'HOME' ENTERED AT 12:48:50 ON 20 MAR 2007)

FILE 'REGISTRY' ENTERED AT 12:49:09 ON 20 MAR 2007
L1 1 SEA ABB=ON PLU=ON 9023-82-9/RN
D

FILE 'HCAPLUS' ENTERED AT 12:51:02 ON 20 MAR 2007

FILE 'REGISTRY' ENTERED AT 12:51:04 ON 20 MAR 2007
L2 SET SMARTSELECT ON
SEL PLU=ON L1 1- CHEM : 7 TERMS
SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 12:51:05 ON 20 MAR 2007
L3 745 SEA ABB=ON PLU=ON L2
E PIROMYCES/CT
E E3+ALL
L4 8 SEA ABB=ON PLU=ON L3 (L) PIROMYCES
L5 0 SEA ABB=ON PLU=ON L4 AND PD<20020123

=> S 9023-82-9/RN
L1 1 9023-82-9/RN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 9023-82-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Isomerase, xylose (9CI) (CA INDEX NAME)
OTHER NAMES:
CN D-Xylose (glucose) isomerase
CN D-Xylose isomerase
CN D-Xylose ketoisomerase
CN E.C. 5.3.1.5
CN Xylose (glucose) isomerase
CN Xylose isomerase
MF Unspecified
CI MAN
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT,
CBNB, EMBASE, IFICDB, IFIPAT, IFIUDB, PIRA, PROMT, TOXCENTER, USPAT2,
USPATFULL
Other Sources: DSL**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

606 REFERENCES IN FILE CA (1907 TO DATE)
19 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
606 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Database: ENZYME**Entry: 5.3.1.5**

ENTRY EC 5.3.1.5 **Enzyme**
NAME xylose isomerase;
D-xylose isomerase;
D-xylose ketoisomerase;
D-xylose ketol-isomerase
CLASS Isomerases
Intramolecular oxidoreductases
Interconverting aldoses and ketoses
SYSNAME
REACTION D-xylose aldose-ketose-isomerase
D-xylose = D-xylulose [RN:R01432]
ALL_REAC R01432;
(other) R00307 R00878
SUBSTRATE D-xylose [CPD:C00181]
PRODUCT D-xylulose [CPD:C00310]
COMMENT Some enzymes also convert D-glucose to D-fructose.
REFERENCE 1
Hochster, R.M. and Watson, R.W. Enzymatic isomerization of D-xylose to D-xylulose. Arch. Biochem. Biophys. 48 (1954) 120-129.
2
Slein, M.W. Xylose isomerase from Pasteurella pestis, strain A-1122. J. Am. Chem. Soc. 77 (1955) 1663-1667.
3 [PMID:5646045]
Yamanaka K.
Purification, crystallization and properties of the D-xylose isomerase from Lactobacillus brevis. Biochim. Biophys. Acta. 151 (1968) 670-80.
PATHWAY PATH: map00040 Pentose and glucuronate interconversions
PATH: map00051 Fructose and mannose metabolism
ORTHOLOG
GENES KO: K01805 xylose isomerase
DME: Dmel(CG8536)
ECO: b3565(xylA)
ECJ: JW3537(xylA)
ECE: Z4990(xylA)
ECS: ECS4448
ECC: c4385(xylA)
ECI: UTI89_C4106(xylA)
ECP: ECP_3668
ECV: APEC01_2884(xylA)
STY: STY4137(xylA)
STT: t3858(xylA)
SPT: SPA3512(xylA)
SEC: SC3596(xylA)
STM: STM3661(xylA)
YPE: YPO4038(xylA)
YPK: y4057(xylA)
YPM: YP_3400(xylA)
YPA: YPA_4128
YPN: YPN_3685
YPS: YPTB3891(xylA)
SSN: SSO_3820(xylA)
SBO: SBO_3573(xylA)
ECA: ECA0097(xylA) ECA1953
PLU: plu2275(xylA)
HIN: HI1112(xylA)
HIT: NTHI1276(xylA)
HSO: HS_0587(xylA)
MSU: MS2373(xylA)
APL: APL_1908(xylA)
XCC: XCC1758(xylA) XCC4100(xylA)
XCB: XC_2477 XC_4191
XCV: XCV1808 XCV4330(xylA)
XAC: XAC1776(xylA) XAC4225(xylA)
XOO: XOO2910(xylA) XOO4417(xylA)
PPR: PBPRA0457
PST: PSPTO_3002(xylA)

PSB: Psyr_2883
 PSP: PSPPH_2356 (xylA)
 PFO: Pfl_2303
 PAT: Patl_3726
 SDE: Sde_2504
 BXE: Bxe_B2622
 BCN: Bcen_6506
 BCH: Bcen2424_6740
 BAM: Bamb_6332
 BTE: BTH_I2338 (xylA)
 MLO: mll14975 mlr5036 mlr5709
 MES: Meso_2820
 SME: SMC03163 (xylA)
 ATU: Atu4483 (xylA)
 ATC: AGR_L_774
 RET: RHE_CH03648 (xylA)
 RLE: RL4176 (xylA)
 BME: BMEI1387
 BMF: BAB1_0570
 BMS: BR0547 (xylA)
 BMB: BruAb1_0569 (xylA)
 BJA: blr1120 (xylA)
 SIL: SPO0856 (xylA)
 SIT: TM1040_0029
 RSP: RSP_1176 (xylA)
 RSH: RspH17029_2838
 RDE: RD1_3705 (xylA) RD1_3765 (xylA)
 NAR: Saro_0757
 ABA: Acid345_0903
 SUS: Acid_3042
 BSU: BG10806 (xylA)
 BHA: BH2757 (xylA)
 BCA: BCE_2210 (xylA)
 BLI: BL03867 (xylA)
 BLD: BLi04048
 BCL: ABC0572 (xylA)
 OIH: OB3119
 GKA: GK1875
 LWE: lwe0243 (xylA) lwe0277
 LLA: L0230 (xylA)
 LLM: l1mg_1002 (xylA)
 EFA: EF0556 (xylA)
 MSM: MSMEG_6021 (xylA)
 MVA: Mvan_5294
 RHA: RHA1_ro04090
 SCO: SCO1169 (2SCG11.03c)
 SMA: SAV7182 (xylA)
 LXX: Lxx03370 (xylA)
 ART: Arth_2430
 AAU: AAur_3706 (xylA)
 NCA: Noca_2375
 TFU: Tfu_1603
 ACE: Acel_2064
 BLO: BL1704 (xylA)
 RBA: RB2658 (xylA)
 BTH: BT_0793
 BFR: BF2262
 BFS: BF2356
 SRU: SRU_0980
 DGE: Dgeo_2692
 TMA: TM1071 TM1667

STRUCTURES	PDB: 1A0C 1A0D 1A0E 1BHW 1BXB 1BXC 1CLK 1DID 1DIE 1DXI
	1GW9 1MNZ 1MUW 1O1H 1OAD 1QT1 1S5M 1S5N 1XIA 1XIB
	1XIC 1XID 1XIE 1XIF 1XIG 1XIH 1XII 1XIJ 1XIM 1XIN
	1XIS 1XLA 1XLB 1XLC 1XLD 1XLE 1XLF 1XLG 1XLH 1XLI
	1XLJ 1XLK 1XLL 1XLM 1XYA 1XYB 1XYC 1XYL 1XYM 2GLK
	2GUB 2GVE 2GYI 2XIM 2XIN 2XIS 3XIM 3XIN 3XIS 4XIA
	4XIM 4XIS 5XIA 5XIM 5XIN 6XIA 6XIM 7XIM 8XIA 8XIM

9XIA 9XIM
DBLINKS IUBMB Enzyme Nomenclature: 5.3.1.5
ExPASy - ENZYME nomenclature database: 5.3.1.5
ERGO genome analysis and discovery system: 5.3.1.5
BRENDA, the Enzyme Database: 5.3.1.5
CAS: 9023-82-9

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DBGET integrated database retrieval system, GenomeNet